

# **Multipath Interference-Resistant Receivers for Closed-Loop Transmit Diversity (CLTD) in Code-Division Multiple Access (CDMA) Systems**

## **ABSTRACT OF THE DISCLOSURE**

System and method for providing interference resistance in communications systems using closed-loop transmit diversity (CLTD). A preferred embodiment comprises: at a receiver, computing a CLTD weighting vector from a received signal, providing the CLTD weighting vector to a transmitter, and using the CLTD vector to suppress interference in the received signal, and at a transmitter, transmitting a signal, receiving the CLTD weighting vector from the receiver, and applying the CLTD weighting vector to all subsequent transmissions.